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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/562,112	02/08/2006	Andrew Aydon Godfrey	604-766	1209
23117 NIXON & VAN	7590 04/13/200 NDERHYE, PC	EXAMINER		
901 NORTH G	LEBE ROAD, 11TH F	TRUONG, TAMTHOM NGO		
ARLINGTON, VA 22203			ART UNIT	PAPER NUMBER
			1624	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)		
	10/562,112	GODFREY, ANDREW AYDON		
Office Action Summary	Examiner	Art Unit		
	TAMTHOM N. TRUONG	1624		
The MAILING DATE of this communication ap Period for Reply	opears on the cover sheet with the o	correspondence address		
A SHORTENED STATUTORY PERIOD FOR REPI WHICHEVER IS LONGER, FROM THE MAILING [ - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION  .136(a). In no event, however, may a reply be tird  d will apply and will expire SIX (6) MONTHS from te, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).		
Status				
1) ■ Responsive to communication(s) filed on 11  2a) ■ This action is <b>FINAL</b> . 2b) ■ Th  3) ■ Since this application is in condition for allowed closed in accordance with the practice under	is action is non-final. ance except for formal matters, pro			
Disposition of Claims				
4)  Claim(s) 1-13 is/are pending in the applicatio 4a) Of the above claim(s) 8-11 is/are withdray 5)  Claim(s) is/are allowed. 6)  Claim(s) 1-7,12 and 13 is/are rejected. 7)  Claim(s) is/are objected to. 8)  Claim(s) are subject to restriction and/ Application Papers  9)  The specification is objected to by the Examination The drawing(s) filed on is/are: a) and Applicant may not request that any objection to the Replacement drawing sheet(s) including the corre	vn from consideration.  for election requirement.  her. herecepted or b) □ objected to by the legendary of	e 37 CFR 1.85(a).		
11) The oath or declaration is objected to by the E	Examiner. Note the attached Office	Action or form PTO-152.		
Priority under 35 U.S.C. § 119				
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>				
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date See Continuation Sheet.	4)  Interview Summary Paper No(s)/Mail D: 5)  Notice of Informal F 6)  Other:	ate		

Continuation of Attachment(s) 3). Information Disclosure Statement(s) (PTO/SB/08), Paper No(s)/Mail Date :1/24/08, 1/10/06, 12/23,05, 5/2606.

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#### **NON-FINAL ACTION**

Applicant's election of Group I (claims 1-7, 12 and 13) in the reply filed on 11-3-08 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).

Claims 8-11 are withdrawn from consideration as being drawn to the non-elected subject matter.

Claims 1-7, 12 and 13 remain for consideration.

## Claim Rejections - 35 USC § 112, Second Paragraph

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

- 1. Claims 1-7, 12 and 13 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The following reasons apply:
  - a. Claim 1 recites formula (I) which has X as a leaving group, but its preparation has Y as a leaving group. It is unclear if X and Y represent the same moieties. Furthermore, formula (I) has PG (protecting group) on the ring nitrogen, but it is unclear how PG bonded to the ring nitrogen since the final product seems to be formula (III) in which the ring nitrogen has hydrogen.

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Claims dependent on claim 1 are also rejected for the same reason.

b. Claim 12 recites a process of making formula (IX) from starting materials of formulae (II) and (III). However, if Y is a leaving group, it is unclear how the side chain at the 6-position is added to formula (III) to obtain formula (IX).

c. Claim 13 recites a process of making formula (X) from starting materials of formulae (II) and (III). However, if Y is a leaving group, it is unclear how the side chain at the 6-position is added to formula (III) to obtain formula (X).

### Claim Rejections - 35 USC § 112, First Paragraph

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

2. **Essential Step Is Missing:** Claims 12 and 13 are rejected under 35 U.S.C. 112, first paragraph, as based on a disclosure which is not enabling. The step of adding the side chain at the 6-position is critical or essential to the practice of the invention, but not included in the claim(s) is not enabled by the disclosure. See *In re Mayhew*, 527 F.2d 1229, 188 USPQ 356 (CCPA 1976). The processes in claims 12 and 13 depend on claim 1 for starting materials of formulae (II) and (III). However, starting materials have Y as a leaving group which would be cleaved off. Thus, without the step of adding on the side chain at the 6-position, the claims would not be completed. Furthermore, R<sup>3</sup> represents many moieties and functional groups, but

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the process described in the specification only has R<sup>3</sup> as -CH-C=CH. Thus, as written claims 12 and 13 are not fully supported by the specification.

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#### Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 3. Claims 1, 6 and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Clemence et. al. (US 5,324,839).

In column 16, the step of cyclizing formula XVII into formula  $II_f$  which corresponds to the process in claim 1, see the following excerpt:

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# in which Rephas the meaning above to obtain a product of the formula

in which Ros. Rayand Rashave the meanings previously indicated to obtain after cyclization a product of the formula

in which Ras. Rassand Rasshave the meanings above, which products of formula Is can be the products of formula Is and the products of formulae IIs. IIs. IIs. IIs and IIs as defined above which can be the products of formula Is in which at least one of Alg. Als. Als and Als is methine carrying a hydroxyl, which are subjected, if desired and if necessary, to one or more of the following reactions in any order:

Note, the definition of  $R_{3B}$  is the same as that of  $R_{3B}$  which corresponds to the instant variables X or Y, and can be a substituted alkyl group.

The disclosed process differs from the claimed process by not having a PG (protecting group) on the ring nitrogen of formula  $\Pi_f$ . However, the instant claim 1 does not recite the step of adding PG onto the ring, and formula (III) is the apparent final product.

Thus, as written, it would have been obvious to derive the instant process from the process of **Clemence et. al.** (US'839) because the step of cyclizing formula II to obtain formula III is generically taught by said reference.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to TAMTHOM N. TRUONG whose telephone number is (571)272-0676. The examiner can normally be reached on M, T and Th (9:00-5:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James O. Wilson can be reached on 571-272-0661. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Tamthom N. Truong/ Examiner, Art Unit 1624

/James O. Wilson/ Supervisory Patent Examiner, Art Unit 1624

Tamthom N. Truong
Patent Examiner, Art Unit 1624